

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/KR2004/001814**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 H03H 9/56**

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

H03H\*

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
KR, JP : IPC as aboveElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
eKIPASS, PAJ, FPD, USPAT**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-198758 A (SAMSUNG ELECTRO MECH CO LTD) 12 JULY 2002 See [0023] ~ [0026] , Fig.2(A)~2(D).	8, 9
A		1 - 7, 10 - 16
Y	JP 62-168410 A (VICTOR CO OF JAPAN LTD) 24 JULY 1987 See the whole document, and Fig.1, 3.	8, 9
A	JP 5-275963 A (OKI ELECTRIC IND CO LTD) 22 OCTOBER 1993 See abstract, and Fig. 1.	8, 9

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

## \* Special categories of cited documents:

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- "P" document published prior to the international filing date but later than the priority date claimed

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- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

01 NOVEMBER 2004 (01.11.2004)

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**02 NOVEMBER 2004 (02.11.2004)**

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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/KR2004/001814

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2002-198758 A	12/07/2002	KR 2001-0019757 A KR 398363 B	15/06/2002 02/09/2003
JP 62-168410 A	24/07/1987		
JP 5-275963 A	22/10/1993		